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PAINT, VARNISH, LACQUER AND RELATED PRODUCTS

List of National Bureau of Standards Publications and Federal Specifications

	<u>Contents</u>	<u>Page</u>
I.	Technologic Papers (T)	3
II.	Circulars (C) and Miscellaneous Publications (M) . .	4
III.	Research Papers (RP)	5
IV.	Building Materials and Structures Reports (BMS) . .	6
V.	Letter Circulars (LC)	7
VI.	Simplified Practice Recommendations (R)	8
VII.	Commercial Standards (CS)	8
VIII.	Outside Publications	9
IX.	Federal Specifications (FS)	12

General Information

This letter circular lists papers on paint, varnish, lacquer and related materials published by the National Bureau of Standards. It contains also a list of letter circulars and of publications in outside journals reporting work on these subjects by members of the Bureau staff. There is included also a list of Federal specifications covering these materials.

Unless specifically stated, the papers herein listed are not obtainable from the National Bureau of Standards. Those marked "OP" are out of print, but, in general, may be consulted at technical and public libraries.

Where the price of a publication is given it can be purchased from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries that extend the franking privilege. When remitting for delivery to other countries, one-third of the total cost of publications should be added to cover postage.

Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order. (Please do not send stamps.)

Circulars of the Paint Manufacturers' Association of the United States, of the American Paint and Varnish Manufacturers' Association, and of the National Paint, Varnish and Lacquer Association, Inc., that are in print are obtainable from the Institute of Paint and Varnish Research 1500 Rhode Island Avenue, N. W., Washington 5, D. C.

Engineering Societies, 29 W. 39th Street, New York City, maintain a duplicating service and are prepared to supply photostated copies of technical articles that are available in any of the large libraries in New York City.

The publications of the National Bureau of Standards and the Federal Specifications are designated by series letters followed by numbers. The explanation for these letters is as follows:

RP = "Research Paper". These are reprints of articles appearing in the "Bureau of Standards Journal of Research" (BS J. Research) and the "Journal of Research of the National Bureau of Standards" (J. Research NBS), the latter being the title of this periodical since July 1934 (volume 13, number 1).

T = "Technologic Paper" of the National Bureau of Standards. T1 to T202 were issued each independent of the other with individual pagination. Later they were assembled to make the first 15 volumes of this series, and subsequent separates were given volume pagination (Tech. Papers BS). This series has been superseded by the Journal of Research.

C = "Circular" of the National Bureau of Standards.

LC = "Letter Circular". These are mimeographed circulars issued without charge by the National Bureau of Standards and are designed to answer many requests for information.

BMS = Building Materials and Structures Reports of the National Bureau of Standards.

M = "Miscellaneous Publication" of the National Bureau of Standards.

R = "Simplified Practice Recommendations" of the National Bureau of Standards.

CS = "Commercial Standards" of the National Bureau of Standards.

TT-P-, etc. = Federal Specifications. Federal Specifications are developed under the supervision of the Federal Specifications Board established by the Director of the Bureau of Federal Supply, Treasury Department. The current list of Federal Specifications giving titles, symbols, and prices entitled "Federal Specifications Index", revised to January 1, 1948, is for sale by the Superintendent of Documents, Government Printing Office, Washington 25, D. C., price 35 cents. A simplified list (Price List 75) is available free from the Superintendent of Documents.

For papers in other scientific or technical journals, the name of the journal is given in abbreviated form, with address, in most cases, in parentheses, and with the volume number, page, and year of publication, in the order named. The journals may be obtained from the publisher or consulted in libraries.

Those who wish to keep informed concerning work at the National Bureau of Standards should subscribe to the "Technical News Bulletin". It is a monthly publication which lists all papers published by members of the staff, whether appearing in Bureau publications or in other journals. It contains abstracts of papers appearing in the Journal of Research of the National Bureau of Standards, notes on progress of work in the laboratories, important conferences at the Bureau, and other items of general technical interest. Subscriptions should be sent to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. The subscription price is \$1.00 a year; single copy, 10 cents.

I. TECHNOLOGIC PAPERS

Title	Series	Price
The density and thermal expansion of linseed oil and turpentine. H. W. Bearce. (April 15, 1912)....	T9	OP
Iodine number of linseed oil and petroleum oils. W. H. Smith and J. B. Tuttle. (April 28, 1914)....	T37	OP
Determination of oil and resin in varnish. E. W. Boughton. (February 19, 1916).....	T65	OP
Detection of resin in drier. E. W. Boughton. (January 15, 1916).....	T66	OP.

LC900

-4-

<u>Title</u>	<u>Series</u>	<u>Price</u>
Effect of certain pigments on linseed oil. E. W. Boughton. (April 13, 1916).....	T71	OP
Determination of volatile thinner in oil varnish. E. W. Boughton. (June 21, 1916).....	T76	OP
Slushing oils. Percy H. Walker and Lawrence L. Steele. (October 14, 1920).....	T176	OP
Shellac. Percy H. Walker and Lawrence L. Steele. Tech. Pap. BS <u>17</u> , 277-296. (1923).....	T232	OP
Exposure tests on colorless waterproofing materials. D. W. Kessler. Tech. Pap. BS <u>18</u> , 1-33 (1924-25),	T248	OP
Emissive tests of paints for decreasing or increasing heat radiation from surfaces. W. W. Coblentz and C. W. Hughes. Tech. Pap. BS <u>18</u> , 171-187 (1924-25).	T254	OP
Use of United States Government specification paints and paint materials. P. H. Walker and E. F. Hickson. Tech. Pap. BS <u>19</u> , 27-46 (1925),	T274	OP
This has been replaced by a publication entitled BMS105, "Paint Manual With Particular Reference to Federal Specifications". See BMS reports on page 6.		
A photometric method for measuring the hiding power of paints. H. D. Bruce, Tech. Pap. BS <u>20</u> , 173-190 (1925).....	T306	OP

II. CIRCULARS OF GENERAL INFORMATION

<u>Title</u>	<u>Series</u>	<u>Price</u>
Paint and varnish. (November 17, 1917),	C69	OP
<u>Miscellaneous Publications</u>		
<u>Title</u>	<u>Series</u>	<u>Price</u>
Some technical methods of testing miscellaneous supplies, including paints and paint materials, inks, lubricating oils, soaps, etc. (November 15, 1916).....	M15	OP
Paint for priming plaster surfaces. Percy H. Walker and E. F. Hickson. (August 31, 1932).....		
	M137	OP

III. RESEARCH PAPERS

(For sale from the Superintendent of Documents.
See first paragraph on page 2).

Title	Series	Price
Accelerated tests of organic protective coatings. Percy H. Walker and E. F. Hickson, BS J. Research <u>1</u> , 1-17 (1928).....	RPL	OP
Tinting strength of pigments. H. D. Bruce. BS J. Research <u>1</u> , 125-150 (1928).....	RP7	OP
✓ The ring and ball method of test for softening point of bituminous materials, resins, and similar substances. Percy H. Walker. BS J. Research <u>4</u> , 195-201 (1930).....	RP142	OP
Durability tests of spar varnish. C. L. Cane. BS J. Research <u>4</u> , 247-259 (1930).....	RP146	OP
A new test for predicting the durability of varnishes (The photochemical embrittling test). J. H. Wilson. BS J. Research <u>7</u> , 73-83 (1931)...	RP333	OP
Determination of insoluble matter in shellac. C. C. Hartman. BS J. Research <u>7</u> , 1105-13 (1931).RP391		5¢
Some properties and tests of traffic or zone paints. Eugene F. Hickson. J. Research NBS <u>19</u> , 21-30 (1937).....	RP1007	10¢
Method of designating colors. Deane B. Judd and Kenneth L. Kelly, J. Research NBS <u>23</u> , 355-385 (1939).....	RP1239	OP
Hue, saturation and lightness of surface colors with chromatic illumination. Deane B. Judd. J. Research NBS <u>24</u> , 293-333 (1940).....	RP1285	OP
Effect of paint on the sound absorption of acoustic materials. V. L. Chrisler. J. Research NBS <u>24</u> , 547-553 (1940).....	RP1298	10¢
Apparatus for the study of the photochemistry of sheet materials. Herbert F. Launer. J. Research NBS <u>24</u> , 567-577 (1940).....	RP1300	10¢
Determination of nonvolatile matter and the calculation of "cut" of shellac varnish. Charles C. Hartman. J. Research NBS <u>25</u> , (1940).....	RP1333	5¢

	<u>Title</u>	<u>Series</u>	<u>Price</u>
A multipurpose photoelectric reflectometer, Richard S. Hunter. J. Research NBS <u>25</u> , 581-618 (1940).....		RP1345	10¢
Measurement of the fading rate of paint. Arnold J. Eickhoff and Richard S. Hunter. J. Research NBS <u>28</u> , 773-793 (1942).....		RP1478	OP
Tristimulus specification of the Munsell book of color from spectrophotometric measurements. Kenneth L. Kelly, Kasson S. Gibson, and Dorothy Nickerson. J. Research NBS <u>31</u> , 55-76 (1943).....		RP1549	25¢

IV. BUILDING MATERIALS AND STRUCTURES REPORTS

(For sale from the Superintendent of Documents - See first paragraph on page 2).

	<u>Title</u>	<u>Series</u>	<u>Price</u>
Methods of investigation of surface treatment for corrosion protection of steel. Rolla E. Pollard and Wilbur C. Porter. October 11, 1938.....		BMS8	10¢
Surface treatment of steel prior to painting. Rolla E. Pollard and Wilbur C. Porter... (1940)...		BMS44	10¢
Solar heating of various surfaces. Herman V. Cottony and Richard S. Dill. January 23, 1941....		BMS64	10¢
Tests of cement-water paints and other water- proofings for unit-masonry walls. Cyrus C. Fishburn and Douglas E. Parsons. March 15, 1943.....		BMS95	25¢
Painting steel. Wilbur C. Porter. October 16, 1944.....		BMS102	10¢
Paint manual with particular reference to Federal specifications. Percy H. Walker and Eugene F. Hickson. October 11, 1945.....		BMS105	\$1.00
Paints for exterior masonry walls. Clara Sentel. November 15, 1947.....		BMS110	15¢

V. LETTER CIRCULARS

(Available free upon request from the National Bureau of Standards.)

<u>Title</u>	<u>Series</u>
Painting of steam and hot water radiators	LC445
The reflectance of paints and pigments	LC470
Color harmony	LC525
Preparation and colorimetric properties of a magnesium oxide reflectance standard	LC547
Fluorescence and phosphorescence	LC550
Luminous and fluorescent paints	LC703
Paints and other protective coatings for tires	LC709
Conservation of linseed oil in paint	LC717
Color and legibility	LC730
Painting steel potable water tanks	LC744
Paints for swimming pools	LC746
Painting exterior walls of porous masonry	LC747
Refinishing wood furniture	LC748
Paint and varnish removers	LC749
Control of humidity by saturated salt solutions	LC752
Polishes	LC753
Finishes for concrete floors	LC758
Care of floors	LC764
Spray painting	LC773
Automobile painting	LC797
Color charts	LC809
The painting of exterior wood surfaces	LC810
Dampness in basements and ground floors	LC813
Fluorescent lamps	LC817

<u>Title</u>	<u>Series</u>
Plastic paint	LC820
The painting of exterior metal surfaces	LC831
Painting interior walls and trim	LC837
Inside wall paint for chemical laboratories (fume-resisting enamel paint)	LC861
Dampness in masonry walls above grade	LC865
Wood and shingle stains	LC867
Paint, varnish, lacquer and related products. List of National Bureau of Standards publications and Federal specifications	LC900

VI. SIMPLIFIED PRACTICE RECOMMENDATIONS

(For sale from the Superintendent of Documents. See first paragraph on page 2.)

<u>Title</u>	<u>Series</u>	<u>Price</u>
Paint and varnish brushes	R43-28	5¢
Color for school furniture	R111-30	5¢
Paints, varnishes and related products	R144-45	5¢
Color code for marking steel bars	R166-37	5¢
Color marking for anesthetic gas cylinders	R176-41	5¢

VII. COMMERCIAL STANDARDS

<u>Title</u>	<u>Series</u>	<u>Price</u>
Colors for sanitary ware	CS30-31	OP
Colors for kitchen accessories	CS62-38	5¢
Colors for bathroom accessories	CS63-38	5¢
Artist's oil paints	CS98-42	5¢
Color materials for art education in schools	CS130-46	10¢

VIII. OUTSIDE PUBLICATIONS*

Some tests of paints for steel subjected to alternate exposure to air and fresh water. Percy H. Walker and S. S. Voorhees, J. Ind. Eng. Chem. (1155 16th Street, Washington 6, D. C.), 5, 899 (November 1913).

Notes on the color designation of oil varnish, F. A. Wertz, J. Ind. Eng. Chem. 10, 475 (June 1918).

A new hexabromide method for linseed oil, L. L. Steele and F. M. Washburn, J. Ind. Eng. Chem. 12, 52 (January 1920).

The determination of acid number of tung and other vegetable oils, L. L. Steele and G. G. Sward, J. Ind. Eng. Chem. 14, 57 (January 1922).

Some physical properties of paint, Percy H. Walker and J. G. Thompson, Proc. Am. Soc. Test. Materials (1916 Race Street, Philadelphia, Pa.) 22, Part 2, 464 (1922).

Abietic acid and certain metal abietates, L. L. Steele, J. Am. Chem. Soc. (1155 16th Street, Washington 6, D. C.) 44, 1333 (June 1922).

Notes on two fossil coal resins, L. L. Steele, Am. J. Sci. (New Haven, Connecticut) 7, 389 (May 1924).

Importance of position in weather tests, Percy H. Walker, Ind. Eng. Chem. 16, 58 (May 1924).

✓ Some observations on red lead as a paint pigment, E. F. Hickson and H. R. Snock, Paint Mfrs. Assoc. of the U. S. (1500 Rhode Island Avenue, N. W., Washington 5, D. C.), Circ. 207, (July 1924).

Some properties and tests of traffic or zone paints. E. F. Hickson, National Paint, Varnish and Lacquer Assoc., Inc., (1500 Rhode Island Ave., N. W., Washington 5, D. C.) Circular No. 532 (1937).

Effect of certain metallic soaps on the drying of raw linseed oil. L. L. Steele, Ind. Eng. Chem. 16, 957 (Sept., 1924).

Paints resistant to sulphide fumes, Percy H. Walker and E. F. Hickson, Ind. Eng. Chem. 16, 1142 (November 1924).

Some observations on aluminum paint, Percy H. Walker and E. F. Hickson, Chem. and Met. Eng. (330 West 42nd Street, New York 18, N. Y.) 31, No. 18 (November 3, 1924).

*(These publications are not generally available from the Government. Requests should be sent to the publishers.) Occasionally this Bureau may have reprinted copies.

The swinging beam method of testing varnish films, Percy H. Walker and L. L. Steele, Paint Mfrs. Assn. of the U. S., Circ. 229 (March 1925).

Paint and varnish research at the Bureau of Standards, Percy H. Walker, J. Chem. Education (Metcalf Chemical Laboratory, Brown University, Providence, R. I.), 3, 777 (July 1926).

A study of the peroxide and persulphate methods for determining chromium in chrome paint pigments, E. F. Hickson, Am. Paint and Varnish Mfrs. Assn. Circ. 294 (November 1926).

Penetration tests on paste paints, E. F. Hickson, Am. Paint and Varnish Mfrs. Assn., Circ. 300 (January 1927).

A study of commercial flat wall paints (lithopone type), E. F. Hickson, Am. Paint and Varnish Mfrs. Assn., Circ. 305, (March 1927).

The measurement of the gloss of paints by the Ingersoll Glariumeter, E. F. Hickson, Am. Paint and Varnish Mfrs. Assn., Circ. 307 (April 1927).

Some precautions to be observed in using saturated solutions for controlling the humidity of air spaces, Percy H. Walker, L. L. Steele and E. F. Hickson, Am. Paint and Varnish Mfrs. Assn., Circ. 310, 292 (May 1927).

Effect of certain organic bases in plasticized nitrocellulose films, L. L. Steele, Ind. Eng. Chem. 19, 807 (July 1927).

Some methods of testing paint and varnish materials, Percy H. Walker, International Congress for Testing Materials, Part II, 603 (1927).

Accelerated tests of organic protective coatings, Percy H. Walker and E. F. Hickson, Ind. Eng. Chem. 20, 591 (June 1927).

Unreliability of visual inspection of exposure tests of paints, Percy H. Walker and E. F. Hickson, Ind. Eng. Chem. 20, 997 (October 1928).

Present status of the technic of evaluating paint service, Percy H. Walker, Proc. Wood-Painting Conference, Madison, Wis. (September 13 and 14, 1929). (Issued in mimeographed form by Forest Products Laboratory, Madison 5, Wisconsin).

Some random suggestions on the purchase of paint, Percy H. Walker. Commercial Standards Monthly, No. 1 (July 1930).

Preparation of surfaces other than wood and composition board for paint and similar coatings, Percy H. Walker. (Read April 11, 1930, to Paint and Varnish Superintendents' Club of the Philadelphia District. Published by Adelphia Reporting Board, Philadelphia, Pa.)

Advantages of oxide films as bases for aluminum pigmented surface coatings for aluminum alloys, R. W. Buzzard and W. H. Mutchler. Nat. Advisory Com. for Aeronautics, Washington 25, D. C. Technical Note 400 (November 1931).

Preparation, use and abuse of specifications for paint materials, P. H. Walker. Symposium on paint and paint materials, Am. Soc. Test. Mtls. (March 6, 1935).

Laboratory testing of inside flat wall finishes from the consumer's viewpoint, E. F. Hickson. Symposium on correlation between accelerated laboratory tests and service tests on protective and decorative coatings, Am. Soc. Test. Mtls. (June 29, 1937).

Outdoor exposure test of paints for exterior masonry walls, Clara Sentel, National Paint, Varnish and Lacquer Assoc., Inc., Circular 609 (1941).

Determining the flash points of heavy-bodied paints by the Tag closed cup and the Ponsky-Mrtens tester, David Busker, A.S.T.M. Bulletin (1916 Race Street, Philadelphia 3, Pa.), No. 124, October 1943.

The influence of metallic driers on certain properties of linseed-replacement oils, Chas. G. Hartman and Eugene F. Hickson, National Paint, Varnish and Lacquer Association, Circular 673 (April 1944).

A method of preparing paint films for determining their dry contrast ratio, Paul T. Howard, National Paint, Varnish and Lacquer Assoc., Inc., Circular 695 (September 1944).

Treatments for metal surfaces prior to painting, E. F. Hickson and W. C. Porter. Product Engineering, 18, No. 8 (August 1947).

IX. FEDERAL SPECIFICATIONS FOR PAINT,
VARNISH AND LACQUER MATERIALS

(For sale from the Superintendent of Documents - See
second paragraph below.)

The following list of Federal specifications is arranged alphabetically by titles, with the appropriate Federal specification symbol also given. In some cases the titles are not exactly the same as are given in the specification, but are chosen for the convenience of the reader. Some materials are cross referenced as a further aid to the reader. For example, "Damar Varnish -- TT-V-61" is the same material as is found under "Varnish, damar -- TT-V-61". A lower case letter at the end of the symbol indicates a revision of the specification. For example, "TT-V-121b" indicates that since the first specification was prepared as TT-V-121 there have been two revisions. The symbol given in the following list is the latest at the time this letter circular was prepared. Assume that later on specification TT-V-121b for example is revised and comes out as "TT-V-121c", this will be the copy received from the Superintendent of Documents, even though the "TT-V-121b" symbol is used in ordering.

Federal Specifications may be purchased from the Superintendent of Documents, Government Printing Office, Washington 25, D.C., for 5 cents each (no stamps), except TT-P-141a, Methods of Sampling and Testing, 20 cents.

Federal Specifications Index may be obtained from the Superintendent of Documents, Washington 25, D. C., price 35 cents.

1. Paints, Pigments, Varnishes, Lacquers,
Thinners, Stains, Oils, Etc.

<u>Title</u>	<u>Symbol</u>
Acetone	O-A-51a
Alkyd resin solutions	TT-R-266
Aluminum pigment	TT-A-468
Aluminum, varnish for	TT-V-81a
Benzol	VV-B-231
Black enamel	TT-E-521
Black enamel, heat resisting	TT-E-496
Black paint, carbon	TT-P-61a
Black paint, graphite	TT-P-27
Blue lead, dry and in oil	TT-B-486
Blue lead, paint	TT-P-20
Bone black, dry	TT-B-600
Bone black, paste-in-oil	TT-P-381
Calcimine	TT-C-96
Calking compound	TT-C-598

<u>Title</u>	<u>Symbol</u>
Carbon black, dry	TT-C-120
Carbon black, pâste-in-oil	TT-P-381
Casein paint, exterior	TT-P-22
Casein paint, interior	TT-P-23a
Cement-water paint	TT-P-21
Chrome green, dry	TT-C-235
Chrome green, pâste-in-oil	TT-P-381
Chrome orange, dry	TT-C-290
Chrome orange, pâste-in-oil	TT-P-381
Chrome oxide, dry	TT-C-306
Chrome oxide, pâste-in-oil	TT-P-381
Chrome yellow, dry	TT-C-290
Chrome yellow, pâste-in-oil	TT-P-381
Cold water paint, exterior	TT-P-22
Cold water paint, interior	TT-P-23a
Concrete and masonry paint	TT-P-24
Copper phthalocyanine blue	TT-C-610
Damar varnish	TT-V-61
Diamyl phthalate	TT-D-291
Dibutyl phthalate	TT-D-301
Dipentene	TT-D-376
Drier, liquid paint	TT-D-651a
Drum coating enamel	TT-E-485b
Emulsion paint, exterior	TT-P-18
Emulsion paint, interior	TT-P-88a
Enamel, black	TT-E-521
Enamel, black, heat-resisting	TT-E-496
Enamel, drum coating	TT-E-485b
Enamel, exterior and interior, synthetic	TT-E-489
Enamel, hospital furniture	TT-E-491
Enamel, interior, gloss	TT-E-506b
Enamel, interior, semi-gloss	TT-E-508
Enamel, lusterless olive drab	TT-E-514
Enamel, red	TT-E-531a
Exterior and interior enamel, synthetic	TT-E-489
Exterior paint, linseed oil	TT-P-40
Exterior paint, resin emulsion	TT-P-18
Exterior primer, for wood	TT-P-25
Exterior varnish	TT-V-121b
Ferrous metal and wood primer	TT-P-636
Filler, paste wood	TT-F-336a
Flat interior paint	TT-P-51b
Floor paint, rubber base	TT-P-91
Floor paint, varnish base	TT-P-146
Galvanized iron primer	TT-P-641
Gold leaf	QQ-G-566
Graphite paint	TT-P-27
Green paint	TT-P-71b
Heat-resisting enamel	TT-E-496
House paint, white and tints	TT-P-40
House paint, see under color or type	

<u>Title</u>	<u>Symbol</u>
Indian red, dry	TT-I-511a
Indian red, paste-in-oil	TT-P-381
Ink, stencil, marking metal, glass, etc.	TT-I-558
Ink, stencil, marking wood, fiber, etc.	TT-I-559
Interior enamel, gloss	TT-E-506b
Interior enamel, gloss, hospital furniture	TT-E-491
Interior enamel, semigloss	TT-E-508
Interior cold water paint	TT-P-23a
Interior emulsion paint	TT-P-88a
Interior flat paint	TT-P-51b
Interior one-coat flat paint	TT-P-47
Interior varnish	TT-V-71a
International orange paint	TT-P-59
Iron blue, dry (formerly "Prussian blue")	TT-I-677
Iron blue, paste-in-oil	TT-P-381
Iron oxide, black, dry	TT-I-698
Iron oxide, bright red, dry	TT-I-511a
Iron oxide, bright red, paste-in-oil	TT-P-381
Iron oxide, brown, dry	TT-I-702
Iron oxide paint	TT-P-31a
Lacquer, acid-resisting	TT-L-54
Lacquer, spraying	TT-L-58
Lacquer, thinner	TT-T-266
Lampblack, dry	TT-L-70
Lampblack, paste-in-oil	TT-P-381
Lead-zinc-titanium paint	TT-P-40
Lithopone, dry	TT-L-426
Lusterless olive drab enamel	TT-E-514
Magnesium silicate	TT-M-90
Masonry paint	TT-B-24
Metallic brown, dry	TT-M-251
Metallic brown, paste-in-oil	TT-P-381
Methods of test	TT-P-141a
Methyl ethyl ketone	TT-M-261
Mineral spirits	TT-T-291a
Mineral red iron oxide, dry	TT-M-381
Mineral red iron oxide, paste-in-oil	TT-P-381
Mixing varnish for aluminum	TT-V-81a
Olive drab enamel, lusterless	TT-E-514
Olive drab exterior paint	TT-P-81a
Ochre, dry	TT-O-121
Ochre, paste-in-oil	TT-P-381
Oil, flattening	TT-O-356a
Oil, linseed, boiled	TT-O-364
Oil, linseeded, raw	TT-O-369
Oil, linseed, replacement	TT-O-371
Oil, soybean	TT-O-388
Oil, tung	TT-O-395
Orange paint, international	TT-P-59

<u>Title</u>	<u>Symbol</u>
Paint, see under color or type	
Pigments, pastes-in-oil	TT-P-381
Pine tar	JJJ-T-121
Plaster primer	TT-P-56a
Primer, exterior wood	TT-P-25
Primer, ferrous metal and wood	TT-P-636
Primer, galvanized iron	TT-P-641
Primer, plaster	TT-P-56a
Primer-surfacer, hospital furniture	TT-P-659
Protein base exterior paint	TT-P-22
Protein base interior paint	TT-P-23a
Prussian blue, dry	TT-I-677
Prussian blue, pasté-in-oil	TT-P-381
Putty, wood sash glazing	TT-P-791a
Putty, metal sash glazing	TT-P-781a
Radioactive luminous compound	TT-R-58
Red enamel	TT-E-531a
Red lead, dry and paste	TT-R-191a
Red lead paint	TT-P-86
Remover, paint and varnish	TT-R-251a
Rubbing varnish	TT-V-86
Sealer, floor, lacquer type	TT-S-171
Sealer, floor, varnish type	TT-S-176a
Shellac, orange	TT-S-271a
Shellac varnish	TT-V-91a
Sienna, raw and burnt, dry	TT-S-346
Sienna, raw and burnt, paste-in-oil	TT-P-381
Spirit varnish	TT-V-130
Stain, wood, exterior	TT-S-706
Stain, wood, interior	TT-S-711
Stencil paint	TT-P-98
Tar, pine	JJJ-T-121
Testing methods	TT-P-141a
Thinner, lacquer	TT-T-266
Thinner, paint, mineral spirits	TT-T-291a
Thinner, synthetic enamel	TT-T-306
Titanium dioxide	TT-T-425
Titanium-lead-zinc paint	TT-P-40
Toluene	TT-T-548
Toluidine red	TT-T-562
Traffic paint	TT-P-115
Turpentine, gum spirits	TT-T-801
Turpentine, steam distilled wood	TT-T-801
Turpentine, destructively distilled wood	TT-T-806
Ultramarine blue, dry	TT-U-450
Ultramarine blue, paste-in-oil	TT-P-381
Umber, raw and burnt, dry	TT-U-481
Umber, raw and burnt, paste-in-oil	TT-P-381

<u>Title</u>	<u>Symbol</u>
Varnish, aluminum	TT-V-81a
Varnish, asphalt	TT-V-51a
Varnish, damar	TT-V-61
Varnish, exterior	TT-V-121b
Varnish, interior	TT-V-71a
Varnish, rubbing	TT-V-86
Varnish, shellac	TT-V-91a
Varnish, spar	TT-V-121b
Varnish, spirit	TT-V-130
Venetian red, dry	TT-V-226
Venetian red, paste-in-oil	TT-P-381
White lead, basic carbonate	TT-W-251b
White lead, basic sulfate	TT-W-261a
White lead paint	TT-P-40
Xylene	TT-X-916
Yellow exterior paint	TT-P-53
Yellow iron oxide, dry	TT-Y-216
Yellow iron oxide, paste-in-oil	TT-P-381
Zinc-dust, dry	TT-Z-291
Zinc dust-zinc oxide primer	TT-P-641
Zinc oxide	TT-Z-301
Zinc oxide, leaded	TT-Z-321
Zinc yellow, dry	TT-Z-415